

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2270	94.7	1563	32 US-09-857-581-35	Sequence 35, Appl
2	2270	94.7	1563	58 US-60-144-783-35	Sequence 35, Appl
3	2269	94.7	1756	1 PCT-US02-11260-1	Sequence 1, Appl1
4	2269	94.7	1756	32 US-09-857-581-1	Sequence 1, Appl1
5	2269	94.7	1756	40 US-10-104-706-1	Sequence 1, Appl1
6	2269	94.7	1756	40 US-10-104-706A-1	Sequence 1, Appl1
7	2269	94.7	1756	41 US-10-171-174A-9	Sequence 1, Appl1
8	2269	94.7	1756	55 US-60-117-769-1	Sequence 1, Appl1
9	2269	94.7	1756	58 US-60-144-783-1	Sequence 1, Appl1
10	2269	94.7	1756	75 US-60-311-461-1	Sequence 1, Appl1
11	2268	94.7	1566	32 US-09-857-581-23	Sequence 23, Appl
12	2268	94.7	1566	32 US-09-857-581-25	Sequence 25, Appl
13	2268	94.7	1566	32 US-09-857-581-27	Sequence 27, Appl
14	2268	94.7	1566	32 US-09-857-581-31	Sequence 31, Appl
15	2268	94.7	1566	32 US-09-857-581-33	Sequence 33, Appl
16	2268	94.7	1566	58 US-60-144-783-23	Sequence 23, Appl
17	2268	94.7	1566	58 US-60-144-783-25	Sequence 25, Appl
18	2268	94.7	1566	58 US-60-144-783-27	Sequence 27, Appl
19	2268	94.7	1566	58 US-60-144-783-31	Sequence 31, Appl
20	2268	94.7	1566	58 US-60-144-783-33	Sequence 33, Appl
21	2267	94.6	1566	32 US-09-857-581-29	Sequence 29, Appl
22	2267	94.6	1566	58 US-60-144-783-29	Sequence 29, Appl
23	2267	94.6	1694	42 US-10-219-999-3561	Sequence 367, App
24	2267	94.6	1709	77 US-60-337-358-367	Sequence 1, Appl1
25	2267	94.6	1717	35 US-09-936-190-1	Sequence 1216, Ap
26	2267	94.6	1884	25 US-09-654-617-1216	

27	2267	94.6	1884	27 US-09-684-016-1216	Sequence 1216, Ap
28	2251	93.9	1824	18 US-09-453-315-13	Sequence 13, Appl
29	2251	93.9	1824	32 US-09-857-581-9	Sequence 9, Appl1
30	2251	93.9	1824	58 US-60-144-783-9	Sequence 9, Appl1
31	2201.5	91.9	1900	32 US-09-857-581-53	Sequence 53, Appl
32	2201.5	91.9	1900	58 US-60-144-783-53	Sequence 53, Appl
33	2193	91.5	1801	32 US-09-857-581-52	Sequence 52, Appl
34	2193	91.5	1801	58 US-60-144-783-52	Sequence 52, Appl
35	2186	91.2	2059	25 US-09-654-617-1217	Sequence 1217, Ap
36	2186	91.2	2059	27 US-09-684-016-1217	Sequence 1217, Ap
37	2183	91.1	1501	32 US-09-857-581-56	Sequence 56, Appl
38	2180	91.0	1501	32 US-09-857-581-15	Sequence 15, Appl
39	2180	91.0	1501	58 US-60-144-783-15	Sequence 15, Appl
40	2179	90.9	1501	32 US-09-857-581-39	Sequence 39, Appl
41	2179	90.9	1501	58 US-60-144-783-39	Sequence 39, Appl
42	2178	90.9	1501	32 US-09-857-581-19	Sequence 19, Appl
43	2178	90.9	1501	32 US-09-857-581-58	Sequence 58, Appl
44	2178	90.9	1501	58 US-60-144-783-19	Sequence 19, Appl
45	2177	90.9	1501	32 US-09-857-581-21	Sequence 21, Appl

ALIGNMENTS

RESULT 1
US-09-857-581-35
: Sequence 35, Application US/09857581
: GENERAL INFORMATION:
: APPLICANT: E. I. du Pont de Nemours and Company
: TITLE OF INVENTION: Nucleic Acid Sequences Encoding Isoflavone Synthase
: FILE REFERENCE: B81339 PCT
: CURRENT APPLICATION NUMBER: US/09/857,581
: PRIOR FILING DATE: 2001-06-05
: PRIOR APPLICATION NUMBER: 60/117,769
: PRIOR FILING DATE: 1999-01-27
: PRIOR APPLICATION NUMBER: 60/144,783
: PRIOR FILING DATE: 1999-07-20
: PRIOR APPLICATION NUMBER: 60/156,094
: PRIOR FILING DATE: 1999-09-24
: NUMBER OF SEQ ID NOS: 66
: SOFTWARE: Microsoft Office 97
: SEQ ID NO 35
: LENGTH: 1563
: TYPE: DNA
: ORGANISM: Pisum sativum
US-09-857-581-35
Alignment Scores:
Pred. No.: 9,896-260 Length: 1563
Score: 2270.00 Matches: 454
Percent Similarity: 87.14% Conservative: 0
Best Local Similarity: 87.14% Mismatches: 67
Query Match: 94.74% Indels: 0
DB: 32 Gaps: 0
US-09-857-581-66 (1-521) x US-09-857-581-35 (1-1563)
Qy 1 MetLeuGluMetLeuAlaLeuGlyLeu***ValLeuAlaLeuPhe***HisLeuArgPro 20

Db 247 ATGCAATCTCTCAAAAAGCATGCGCCCTTATCTCTCTCTCTGCGCATCAAC 306
 QY 81 ValValAlaSerThrProGluLeuPheLysLeuPheLeuGln*****GluAlaThrSer 100
 Db 307 GTGGTGTCTTCAACCCCTGAGGTGTCTTCAAGCTCTTCTCCCAACCACAGGCAACTTCC 366
 QY 101 Phe***ThrArgPheGlnThrSerAla***Arg***LeuThrTyrAsp*****ValAla 120
 Db 367 TTCAACACAGGTTCCAAACCTCTGCAATAGACGCTCACTTACGCAACTCTGTGGCC 426
 QY 121 *****Pro***GlyProTyrTyr***PheValArgLysLeuIleMetAsnAspLeuLeu 140
 Db 427 ATGCTTCATTCGACCTTACTGAGAGTTCGTAGAGAAAGCTCATCTAGACACACTTCTC 486
 QY 141 AsnAlaThrThrValAsn***LeuArgProLeuArgThrGlnGlnIleArgLys***Leu 160
 Db 487 AAGCGCACACCGCTCAACAGAGCTGAGGCCCTTGAAGAACCCACAGATCGCAATTCCTT 546
 QY 161 Arg***MetAlaGln***AlaGluAla***LysProLeuAsp***ThrGluGluLeuLeu 180
 Db 547 AGGGTTATGCGCCAAAGCGCAGAGGCCCAAGACCCCTTGACCTGACCGAGAGACTTCTC 606
 QY 181 LysTyr***AsnSerThr***SerMetMet***LeuGlyGluAlaGluGlnIleArgAsp 200
 Db 607 AATGACACACAGACGACCATCTCCATATGATGCTGCGCAGGCTTGAAGATCAGAGAC 666
 QY 201 IleAlaArgGluValLeuLysIle***GlyGluTyrSerLeuThrAspPheIle***Pro 220
 Db 667 ATGCTTCCGAGGTTCTTAAAGATCTTGGGAAATGACGCTCACTGACTCATCTGGCTT 726
 QY 221 LeuLys***LeuLysValGlyLysTyrGluLysArgIleAspAspIleLeuAsnLysPhe 240
 Db 727 TTGAAGTATCTCAAGGTTGGAAGATGAGAAAGAGATGATGATCATCTGAAACAGTTT 786
 QY 241 AspProValValGluArgValIleLysLysArgArg***IleValArgArgArg***Asn 260
 Db 787 GACCTCTGCTTGAAGGGTCTCATAGAAAGCCCTGATGATCTGACAGAGAGAAAGAAC 846
 QY 261 GlyLysLysLysLysLysLysLysLysLysLysLysLysLysLysLysLysLysLys 280
 Db 847 GAGAAAGTTGTTGAGGCGCAGCGAGCGAGCTTCTCTGACACTTTCCTTGAATTCGCT 906
 QY 281 GluAspGluThr***GluIleLysIleThrLys*****IleLysGlyLeuValValAsp 300
 Db 907 GAGGACAGACATGAGATCAAAATTACAGAGACAAATCAAGGCTTGTTCGAC 966
 QY 301 ***PheSerAlaGly***AspSerThrAla*****ThrGluTyrPalaLeuAlaGluLeu 320
 Db 967 TTTTCTCTGAGGAGACGATTCACAGCGGTGCGCAACAGATGGGCATTCGACAGCTC 1026
 QY 321 IleAsnAsnPro***ValLeu*****AlaArgGluLys***TyrSerValValGlyLys 340
 Db 1027 ATCAACATATCCAGGCTGTTCAAAGAGCTCTGAGAGAGCTTACAGTGTTGTGGCATA 1086
 QY 341 Asp***LeuValAspGluValAspThrGlnAsnLeuProTyrIleArgAlaIleValLys 360

Db 1087 GATAGACTGTTGACGAGAGTGAACATCAAACTTCTTACTTACATTAAGGCGCATTTGAG 1146
 QY 361 GluThrPheArgMetHisProProLeuProValValLysArgLysCys***GluGluCys 380
 Db 1147 GAGACATTCGCAATGACACCCACCACTCCAGTGTGCATAAAGAAAGACAGAGAGTGT 1206
 QY 381 ***IleAsnLys***Val***ProGluGlyAlaLeu*****PheAsnValTyrGlnVal 400
 Db 1207 GAGATTAATGGATGTGATCCCAAGAGAGCAATGTTGTTCTTTCATATGTTGGCAAGTA 1266
 QY 401 Gly***Asp***LysTyrTyrPaspArgProSerGlu***ArgProGluLysArgPheLeuGlu 420
 Db 1267 GGAAGGACACCCCAATATCTGGAGACAGACATCAAGATTCGTTCCGAGAGGTTCTTGA 1326
 QY 421 Thr***AlaGluGlyGluAla***LeuAspLeuArgGly***HisPheGlnLeuLeu 440
 Db 1327 ACTGAGCTGGAAGGCGAGACAGGCGCTTGAATCTTACGGGCGACGATTTCCAACTCTC 1386
 QY 441 ProPheGlySerGlyArg***MetCysProGlyVal***LeuAlaThrSerGly***Ala 460
 Db 1387 CCAATTGGGTGTGGAGAGATGAGATGGCTGTGTGCTCAATTGCTACTTACAGAAATGCA 1446
 QY 461 ThrLeuLeuAlaSerLeuIleGlnCysPheAspLeuGlnValLeuGlyProGlnGlyGln 480
 Db 1447 ACACTTCTTGATCTCTTATCCATGCTTTCAGCTGCAAGTGTGGGCCCTCCACAGACAA 1506
 QY 481 IleLeuLysGly***AspAlaLysValSerMetGluGluArgAlaGlyLeuThrValPro 500
 Db 1507 ATTTGAAGGTGATGATGATGCAAGGTATGAGTAAGAGAGAGAGAGAGAGAGAGAG 1566
 QY 501 ArgAlaHisSerLeuValCysValProLeuAlaArgIleGlyValAlaSerLysLeuLeu 520
 Db 1567 AGGCGACATATCTCGTTGTGTTCTTCCACTTGCAGAGATCGGCGTTCATTAACCTCTT 1626
 QY 521 Ser 521
 Db 1627 TCT 1629

RESULT 6
 US-10-104-706A-1
 ; Sequence 1, Application US/10104706A
 ; GENERAL INFORMATION:
 ; APPLICANT: Odell, Joan
 ; APPLICANT: Yu, Xiaodan
 ; APPLICANT: Xu, Hu
 ; TITLE OF INVENTION: Root-Specific, Stimulant Inducible Promoter and its Use
 ; FILE REFERENCE: B81468 US NA
 ; CURRENT APPLICATION NUMBER: US/10/104,706A
 ; PRIOR APPLICATION NUMBER: 2002-03-22
 ; PRIOR FILING DATE: March 23, 2001
 ; NUMBER OF SEQ ID NOS: 17
 ; SOFTWARE: Microsoft Office 97
 ; SEQ ID NO 1
 ; LENGTH: 1756
 ; TYPE: DNA

Alignment Scores:	
Pred. No.:	
Score:	1.51e-259
Percent Similarity:	2669.00
Best Local Similarity:	87.11%
Best Local Similarity:	87.11%
Query Match:	94.70%
DB:	40
Length:	1756
Matches:	454
Conservative:	0
Mismatches:	67
Indels:	0
Gaps:	0

QY	1	MetLeuLeuGluLeuAlaLeuGlyLeu***ValLeuAlaLeuPhe***HisLeuArgPro	20
Db	67	ATGTTGCTGGAACTGCACCTGTTGTGTGTATAGCTTTGTTTCTGCACCTGGGTGCC	120
QY	21	ThrPro***Ala***SerIysAlaLeuArgHisLeuProAsnProProserPro***Pro	40
Db	127	ACACCAATGCGAATAATCAAAACCACTTGGCACTGCCAAACCCCTCCAAACCCCAAGCTT	180
QY	41	ArgLeuProPheIleGlyHis***HisLeuLeuLysAspLysLeuLeuHisGlyVala***	60
Db	187	CGCTTCCTCCCTCATGGCCACCTTACCTCTTAAAGATAACTTCTCCCATATGACATC	240
QY	61	IleAspLeuSerLysIysHisGlyProLeuPheSer*****PheGlySerMetProThr	80
Db	247	ATGCATCTCTCCAAAAGATATGGCCCTTATCTCTCTCTCTCTGCTTGGCTGCATGGCAAC	300
QY	81	ValValAlaSerThrProGluLeuPheLysLeuPheLeuGln****GluAlaThrSer	100
Db	307	GGGTGGCTCTCACCCCTAGTTGTTCAAGCTTCTCTCCAAACCCAGAGGACATTC	360
QY	101	Phe***ThrArgPheGlnThrSerAla***Arg***LeuThrTyrAsp*****ValAla	120
Db	367	TTCAACACAAAGGTTCCAAACCTCTGACATTAAGAGCCTTACTCACTACGAACATCTGTGGCC	420
QY	121	****Pro***GlyProTyrTrp***PheValArgLysLeuIleMetAsnAspLeu	140
Db	427	ATGTTTCATTCGGACCTTACTGGAAGTTGTGTAGSAGACTCATGAAACAACCTTCTC	480
QY	141	AsnAlaThrThrValAsn***LeuArgProLeuArgThrGlnGlnIleArgLys***Leu	160
Db	487	AACGCCAACACCGTCGAACAACTCAGGACCTTTAGGACCAACAGATCCGCAAGTTCCCT	540
QY	161	Arg***MetLysGln***AlaGluAla***LysProLeuAsp***ThrGluGluLeu	180
Db	547	AGGGTTATGGCCCAAGGCGACAGAGGCCAGAACCCCTTGACGTACACGAGAGCTTTC	600
QY	181	LysTrp***AsnSerThr***SerMetMet***LeuGlyGluAlaGluGluIleArgAsp	200
Db	607	AAATGACCAACAGCACATCTTCATATATATCTCTGGAGAGGCTTGAGATCAGAGAC	660
QY	201	IleAlaArgGluValLeuLysIle***GlyGlyTyrSerLeuThrAspPheIle***Pro	220
Db	667	ATGCGTCGACGAGGTTCTTAAGTCTTGGGGAATACAGCTTCATGACTTCAATGGGCT	720

QY	221	LELVLS***LEuLVsValGLVlySTyGLVwValgllLEaSPsPlLEuLVnLVsPHe	240
Db	727	TTGAAGATCTCAAGGTTGGAAAGTATGAAAGAGCATTAATACACTTCAACAAGCTC	786
QY	241	ASpPrOVaLVaLVGLuARgValllELyLVsARgAG**llEValrARgAR**ASn	260
Db	787	GAOCCGTCGTGAAGAGGTCATCAAGACCCTGAGATCTCGAAGACGAAGAACAC	846
QY	261	GLyGLu****GLuGLyGLu***SerGLyVal***LEuAsPThrLEuLVGLuPHeaL	280
Db	847	GGAGAAAGTTGTGAGGGGAGGCGAGGGGCGTCTTCGACGACTTGCTGGAATTCGCT	906
QY	281	GLuAsPGLuThr**GLuLEyLElThrLVs****llElySLyLEuValValAsP	300
Db	907	GAGGACGAGACCATGAGAGTCAAAATTACCAAGAGCAAAATCAAGGCGCTTGTCGAC	966
QY	301	***PHeSerLAglLV***ASpSerThrAla*****ThrGLuThrPlALEuAlaGLuLV	320
Db	967	TTTTTCTCTGAGAGCAACATTCACAGCGGTGGCAACAGATGGGCATTTGGCAAGCTC	1026
QY	321	llEaSnAsnPPro**ValLeu*****AlaARgGLuGLu**TySerValValGLyLVs	340
Db	1027	ATCAACATATCCAGAGGTCGTTCGAAAGGCTCTGAGAGGTCACAGCTGTGTGGCCAA	1086
QY	341	ASp***LEuValAsPGLuValAsPThrGLuLVnLEuLVProTyrlLEaRAlaLEuLVs	360
Db	1087	GATGACATCGGTGACCAAGTTGACATCAAAACCTTCCTACATTAAGGCCATTTGGAG	1146
QY	361	GLuThrPHeARgThEtlSPROProLEuPrOVaLVaLVyARgLVsCyS**GLuGLuCyS	380
Db	1147	GAGACATTCGGAATGCACCCACACTCCAGTGTCAAAAGAAAGTGCACGAAGAGTAT	1206
QY	381	***llEaLVnGLy**Val***ProGLuGLyAlaLeu*****PHeAsnValTPRGLnVal	400
Db	1207	GAGATTAATGGGATATGATATCCAGAGGCAATGGTCTTTTCAATGTTGGCAAGTA	1266
QY	401	GLy***ASp***LySTyTTPAsPArProSerGLuLV**ARgProGLuARgPHeLEuGLu	420
Db	1267	GGAGAGGACCCCAAAATATCGGAGCAGACCATCAAAATTCGTCGAGAGGTTCTTAGA	1326
QY	421	Thr***AlaGLuGLyGLuAla*****LEuAsPLeuARgGLy***HlSPHeGLnLEuLV	440
Db	1327	ACTGGTCGTCAAGCGGAGAGCAGGCGCTCTTGATCTTATGGGGGACAGATTTCAACTCTC	1386
QY	441	ProPHeGLySerGLyLV**MeCySPROGLyVal***LEuAlaThnSerGLy***Ala	460
Db	1387	CCATTTGGGTCGTGGAGAGATATGGCCCTGGATGTCAATTTGGCTACATTCAGAAATGGCA	1446
QY	461	ThrLEuLVaLAsErLeuLVGLnCySPHeaPLeuGLnValLEuGLyProGLnGLyGLn	480
Db	1447	AACATCTTCGACATCTTATTCAAATGCTTTAGCTCGAAGTGTGGGCCCTTCAGAGACAA	1506
QY	481	llELeuLVsGLy**ASpAlaLVsValSerMeTGLuLVARgAlaGLyLEuThrValPro	500
Db	1507	ATATTGAAGAGGTATGATGCCAAAGTTAGCAAGAGAGAGAGCTGGCTCAGCAAGTTCCA	1566
QY	501	ARgAlaHlSerLEuValCyValProLEuAlaARgllEGLyValAlaSerLVLEuLV	520

